

Title of Invention

Lawnmower Rotary Cutting Apparatus and Grass Guide

[0001] Original application submitted by Daniel Charles Heinz (joint inventor) of 4303 Florio Drive, Perry Hall, MD 21128, Citizen of the United States of America, and Daniel John Heinz (joint inventor) of 659 Shore Drive, Joppa, MD 21085, Citizen of the United States of America.

Cross Reference to Related Application

[0002] This nonprovisional utility patent application was filed within one year of and claims a domestic priority date of November 18, 2003 based on U.S. Provisional Patent Application 10/715,192, filed November 18, 2003.

Statement Regarding Federally Sponsored Research

[0003] No federal funds were used to sponsor any of the research related to the development of the invention described in this patent application.

Names of Parties to a Joint Research Agreement

[0004] The development of the invention described in this patent application is not the product of any joint research and development agreement.

Background of the Invention

[0005] Field of the Invention: Most conventional lawnmowers cut the lawn using one or more large metal blades rotating in a plane of rotation that is substantially parallel to the land surface beneath the grass being mowed. Additionally, most conventional lawnmowers have some type of blade height adjustment. Blade height adjustments are typically achieved by raising or lowering the lawnmower chassis relative to the land surface, and may require a fair amount of time and additional tools. These adjustments can be used to reduce the power required to cut the lawn by raising the blade. However, once a blade height is selected the height and thickness of the lawn and the velocity in which the mower is moved through the lawn determine the blade's cutting area and commensurate amount of power required by the lawnmower. To accommodate the wide variety of grass heights

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